September 14, 2005 Report

December 13, 2005

October 6, 2005 Report



THOMAS L. GARTHWAITE, M.D. Director and Chief Medical Officer

FRED LEAF Chief Operating Officer

COUNTY OF LOS ANGELES DEPARTMENT OF HEALTH SERVICES 313 N. Figueroa, Los Angeles, CA 90012 (213) 240-8101

September 14, 2005

TO:

Each Supervisor

FROM:

Thomas L. Garthwaite, M.D. WWW.

Director and Chief Medical Officer

Jonathan E. Fielding, M.D., M.P.H.

Public Health Director and Health Officer

SUBJECT:

2005 WEST NILE VIRUS ACTION PLAN, MONTHLY FOLLOW-UP REPORT

On March 8, 2005 we presented the Board our West Nile Virus (WNV) prevention and surveillance plan for 2005. This is the sixth monthly follow-up report describing WNV prevention and surveillance activities in 2005.

Since our last update in July, 12 human WNV cases have been identified within Los Angeles County (LAC) as of September 7, 2005. These cases include: one encephalitis, six meningitis, four WNV Fever, and one asymptomatic blood donor. Five cases are located in the San Fernando Valley, four are from eastern LAC, and one is from the San Gabriel Valley. Since the first confirmed WNV case on August 9th, the Acute Communicable Disease Control Program has posted biweekly updates on Tuesdays and Fridays on the Department of Health Services' website showing the location of WNV-infected birds and the number of confirmed WNV human cases, (http://lapublichealth.org/acd/index.htm). To date, there have been no reported human deaths due to WNV infection; two confirmed fatal horse infections were reported last week. Ten sentinel chickens from Antelope Valley have shown evidence of WNV-infection since late May. Seventy-eight WNV-infected dead birds have been identified in seven LAC census tracts, including those in Long Beach. One hundred and eighty-five WNV-infected mosquito pools have been detected, including those in Long Beach.

As of July 2005, all areas of Los Angeles County with the exception of Catalina Island previously without mosquito control services have reached agreements with local vector control agencies. Cites with mosquito abatement services include South Pasadena, Baldwin Park, La Cañada-Flintridge, and unincorporated areas within the Antelope Valley including Quartz Hills, West Palmdale and Rancho Vista.

Gloria Molina First District

Yvonne Brathwaite Burke Second District

> Zev Yaroslavsky Third District

> > Don Knabe Fourth District

Michael D. Antonovich Fifth District Each Supervisor September 14, 2005 Page 2

We will provide you with our next status report by October 16, 2005. In the meantime, if you have any questions or need additional information, let either of us know.

TLG:JEF:RC:sc 502:011 REF 2813 (A007LM2005 #6)

Attachments

c: Chief Administrative Officer County Counsel Executive Officer, Board of Supervisors

Notes	On July 1, 2004, the Health Officer made WNV infection reportable by clinicians and laboratories within one working day.		Schedule medical grand rounds for physicians	Hospitals in eastern county were invited to join active surveillance project. Hospital will report all WNV tests performed in house or will receive free WNV testing by PHL.	Ongoing data cleaning	ACDC facilitated LADHS HIPAA Training for key MAD management staff.	ACDC professional staff review and investigate all suspected WNV case reports, clinical laboratory reports, and blood bank positive donors.
Implementation Date	April 18, 2005	April 18, 2005	Continuous	Continuous	Date of first case	April 29, 2005	Date of first case
Completion Date	Completed	Completed	Continuous year-round	Continuous WNV Season	Continuous	Completed	Continuous year-round
Description	Clinician letter mandatory WNV reporting and prevention message	Laboratory letter mandatory WNV reporting of results	Clinical consultation on WNV to medical providers	Active surveillance at selected high risk areas within LAC	Update database and epidemiologic case history forms	Facilitate HIPAA Training for Mosquito Abatement District	Conduct Epidem.
WNV Activity	Human surveillance	Human surveillance	Human surveillance	Human surveillance	Human surveillance	Human surveillance	Human surveillance
Agency	DHS ACDC	DHS ACDC	DHS ACDC	DHS ACDC	DHS ACDC	DHS ACDC	DHS ACDC

Motes	ACDC communicates pertinent location to local MVCD so it can assess and apply control measures if warranted.	To synchronize statistics with state	Analysis of committee cases on weekly or monthly basis. Update LAC DHS web page with accurate epidemiologic information.	Generate weekly surveillance report - send by e-mail to appropriate agencies - post on website for public	Collaborate to extent possible on standard public health messages and special releases, informed by survey.	In press: Korean, Chinese, Tagalog, Farsi, Vietnamese, Russian, Thai, Cambodian, Arabic	A WNV prevention radio message ran in English and Radio stations through a contract with Clear Channel.
Implementation Date	Date of first case	Continuous	Date of first case	Continuous	Continuous	Sept 21, 2005	June 26-30, 2005
Completion Date	Continuous year-round	Continuous year-round	Continuous year-round	Continuous year-round	Continuous	In process Available: English, Spanish	Completed
Description	Communication to local mosquito & vector control (MVCD) districts and CADHS	Communication to State DHS	Summary reports of human cases	Analysis of human WNV surveillance data	Coordinate prevention messages, press conferences and press releases with MVCDs and State	Update WNV educational cards (palm cards) to reflect findings of IA Survey.	Public Service Announcements in multiple radio stations; Clear
WNV Activity	Human surveillance	Human surveillance	Human surveillance	Human surveillance	Health Education	Health Education	Health Education
Agency	DHS ACDC	DHS ACDC	DHS ACDC	DHS ACDC	DHS ACDC	DHS ACDC	DHS ACDC

Notes	Materials available in English and Spanish available for posting on any surface.	Parks & Recreations will partner with distribution of health education materials	Review and update messages monthly or as needed.		Information to be e-mailed to appropriate agencies, posted on WNV web site	14 presentations were provided by the speaker's bureau in 2005 so far.	Arrange for test if bird has died recently (24-48 h) and belongs to corvid or raptor families.	Confirmatory testing on positive birds is performed by LACPHL and California Viral and Rickettsial Disease Laboratory (VRDL)
Implementation Date	June 1, 2005	March 16, 2005	May 11, 2005 Update additional languages	Ongoing	Continuous	April 12, 2005	Continuous	Continuous
Completion	Completed	Completed	Completed	Ongoing	Continuous year-round	Completed	Continuous	Continuous
Description	WNV Prevention messages on static cling-on sheets for posting.	How to Mosquito Proof Your Home & Community	Toll free public information line in multiple languages	Web page provides up-to-date figures on WNV activity in LAC. Links to appropriate sites for more information; access to downloadable materials	Provide information on cumulative human, bird, and mosquito indicators.	New 2005 WNV Presentation	Log calls from the public and MVCDs on dead birds.	Perform VecTest (quick screening test) on dead birds
WNV Activity	Health Education	Health Education	Health Education	Health Education	WNV comprehensive status report	Speakers Bureau (Area Health Officers)	Dead Bird Surveillance	Dead Bird Surveillance
Agency	DHS ACDC	DHS ACDC	DHS ACDC	DHS ACDC	DHS ACDC	DHS CHS	LAC VPH	LAC VPH

Page 3 of 5

1.	D					
Notes	West of Quartz Hill toward Santa Clarita along highway 14 Corridor August 1st- Antelope Valley Mosquito and Vector control received \$19,000 from Governor's budget to fund uncovered areas noted above.	Does not include abatement.	Materials from ACDC	7.	Represent DHS in technical meetings on vector surveillance and control	Chickens are bled biweekly and tested at VRDL
Implementation Date	Continuous	Continuous	Continuous	Continuous	Continuous	Continuous
Completion Date	Continuous	Continuous	Continuous	Continuous	Continuous	Continuous
Description	Work with board officials, county agencies and cities in developing long term, permanent mosquito control services to uncovered areas through annexation or contractual	Respond to mosquito concerns in those cities and communities without routine mosquito surveillance and	Routine literature distribution throughout all cities within the county and provide training to other departments	Provide staff to DHS Speakers	Facilitate MVCD communications on mosquito and bird findings	Maintain sentinel chicken flocks at various geographic
WNV Activity	Collaboration	Collaboration	Public education and inter-departmental training	Collaboration	Coordination	Sentinel chickens Surveillance
Agency	LAC EH	LAC EH	LACEH	LAC EH	LACEH	Local MVCDs

Page 4 of 5

Agency	WNV Activity	Description	Completion	Implementation Date	Notes
Local MVCDs	Mosquito Surveillance	Test mosquito pools for arboviruses including SLE, WEE, and WNV	Continuous	Continuous	The CA DHS reports biweekly mosquito surveillance results in CA Arbovirus Surveillance Bulletin
Local MVCDs	Mosquito Abatement	MVCDs receive reports from ACDC and VPH to identify areas of human and animal case activity	Continuous	Continuous	Mosquito larva abatement via larvacide, mosquito fish, and habitat elimination. Controlling adult mosquitoes is not a primary focus of any MVCD
Local MVCDs	Dead Bird Surveillance	Sites for positive birds are evaluated for possible mosquito abatement	Continuous	Continuous	
Local MVCDs	Public Education	Districts' mission includes promotion of personal responsibility to reduce mosquito breeding sites.	Continuous	Continuous	Each MVCD serves a defined catchment area. Outreach thru mailings, billboards, and mass media

RC;SC C:LetterAssigmen12813/SummaryActionPlan-RC2005 Rev: 09/07/2005

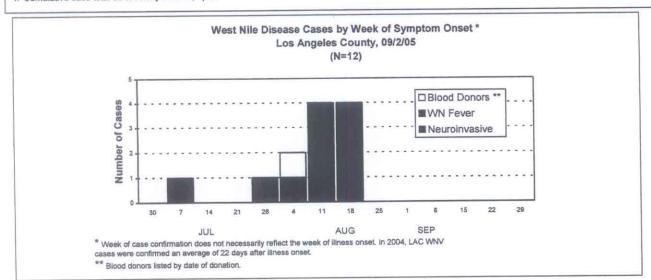


WEST NILE VIRUS: Epidemiology Report Cumulative Totals - September 2, 2005

West Nile Virus Case Characteristics - Los Angeles County, 2005¹

				Clinical Preser		esentation	ation			raphics Median Age
	Total #	Information Unknown ²	Blood Donor	WN Fever	Neuro- invasive	Neuroinvasive Diagnosis	Hospitalized ³	Deaths	Gender (M / F)	(range)
TOTAL to date ⁴	12	0	1	4	7	1 = Encephalitis 6= Meningitis 0 = Acute Flaccid Paralysis	8	0	7 /5	49 yrs (22-89 yrs)

- 1. Excludes cases in Long Beach and Pasadena. Totals are provisional and subject to change.
- 2. Cases reported positive but clinical and demographic information is pending.
- 3. Hospitalized at time of diagnosis and may not reflect current clinical status.
- 4. Cumulative case total as of Friday 09/2/05, 4pm.

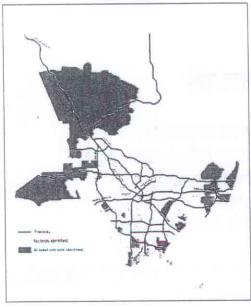


West Nile Virus: Case Count by Service Planning Area (SPA) Los Angeles County, 09/2/2005

Los Aligeles Coul	ity, corminator
LOCATION	TOTAL to date ¹
SPA 1: Antelope Valley	0
SPA 2: San Fernando	5
SPA 3: San Gabriel	1
SPA 4: Metro	0
SPA 5: West	0
SPA 6: South	0
SPA 7: East	5
SPA 8: South Bay	1
Residence Unknown ²	0
TOTAL ³	. 12

- Totals are provisional and subject to change.
- Demographic information is excluded or pending.
- 3. Cumulative case total as of Friday 09/2/05, 4pm.

Dead Birds Identified with West Nile Virus by ZIP Code Los Angeles County, 2005 (as of 9/1/2005)







THOMAS L. GARTHWAITE, M.D. Director and Chief Medical Officer DEPARTMENT OF HEALTH SERVICES

JONATHAN E. FIELDING, M.D., M.P.H. Director of Public Health and Health Officer

313 North Figueroa Street, Room 909 Los Angeles, California 90012 TEL (213) 240-8117 • FAX (213) 975-1273

www.lapublichealth.org

December 13, 2005

TO:

Each Supervisor

FROM:

Thomas L. Garthwaite, M.D. Ć

Director and Chief Medical Officer

Jonathan E. Fielding, M.D., M.P.H.

Director of Public Health and Health Officer

SUBJECT: 2005 LOS ANGELES COUNTY WEST NILE VIRUS SURVEILLANCE SUMMARY

During the year, we provided monthly updates on West Nile virus (WNV) activity within Los Angeles County (LAC). The purpose of this memo is to provide an overview of the 2005 WNV season in the context of the past three years.

Since the introduction of the WNV in the continental United States (US) in the summer of 1999, it has become established in nearly all the contiguous states, causing over 10,000 cases and 262 deaths in 2003 alone. WNV arrived in California (CA) in 2003 with three laboratory-confirmed symptomatic human cases, one of which was apparently acquired locally in LAC. In 2004, CA reported 779 human WNV infections, the greatest number of any state in the US; LAC documented 309 cases, more than any other CA local health department. In 2005, CA reported 910 WNV infections; one third of 2,733 reported cases nationally. In contrast to 2004 when WNV activity was focused in Southern CA, in 2005 WNV was widespread throughout northern, central, and southern CA, with Sacramento County reporting the greatest number cases of any jurisdiction, 175 cases. In contrast to 2005, LAC documented only 43 WNV human infections in 6 of 8 SPA's (preliminary data as of November 29, 2005): San Fernando (18), San Gabriel (4), West (1), South (2), East (12), and South Bay (6) (Table 1).

Of the 43 human WNV infections, 37 (86%) individuals were symptomatic; 28 (65%) experienced neuroinvasive disease and 9 (21%) experienced West Nile fever. Blood bank screening detected WNV infection in six asymptomatic donors; all asymptomatic blood donors were re-screened by local health departments and remained asymptomatic. In contrast to 2004 when 12 fatalities were associated with WNV, no WNV-related fatalities were reported this year.

Gloria Molina First District

Yvonne Brathwaite Burke Second District

> Zev Yaroslavsky Third District

> > Don Knabe Fourth District

Michael D. Antonovich Fifth District As of November 29, 2005, non-human WNV activity has been detected in all eight LAC Service Planning Areas (SPAs). This includes: 157 WNV-infected dead birds in eight SPAs, 114 WNV-positive mosquito pools in six SPAs, 69 WNV-positive sentinel chickens in four SPAs including the Antelope Valley, and 10 WNV-positive horses in four SPAs. Of the 10 horses, six horses either died or were euthanized as a result of WNV infection.

WEST NILE VIRUS ACTIVITY IN LAC (Table 1)

WNV INFECTIONS	2003	2004	2005
Humans	1	309	43
Horses	0	16	10
Birds (dead)	*65	*840	*163
Sentinel chickens	0	*166	*74
Mosquito pools	*6	*408	*217

^{*}Includes the City of Long Beach

WHY THE DRAMATIC DECREASE IN WNV ACTIVITY WITHIN LAC IN 2005?

In the six years since WNV arrived and spread across most of the US, WNV activity has shown dramatic fluctuations in both human cases and non-human WNV surveillance. This is because maintenance of WNV infection requires a dynamic balance among environmental conditions (local temperature, rainfall, and humidity), bird reservoirs, mosquito populations, human hosts, and other factors such as the intensity of local mosquito abatement services. Mosquito abatement specialists and other WNV experts have speculated that there are various reasons for the dramatic decrease in WNV activity seen within LAC in 2005 compared to that of 2004. One reason could be decreases in local mosquito populations. From March through May 2005. the season was much cooler compared to last year. As a result, mosquito increases normally seen in late spring were delayed. Record rainfall in 2005 created larger-than-normal bodies of water and diluted nutrients, which could have been a leading factor to slow mosquito development. Another possible reason for the 2005 WNV decrease could be the large mortality among local bird populations in 2004 such as crows, leading to decreased avian reservoirs of infection. Ultimately, no one truly understands the reasons for these dynamics. Regardless. intense mosquito abatement by local districts should be acknowledged for playing an important role in controlling WNV infections for the 2005 season.

WNV surveillance is conducted throughout the entire calendar year. This includes surveillance for WNV-infected dead-bird reporting testing, mosquito pools, sentinel chickens, human disease surveillance, and blood donor infection (see attachment).

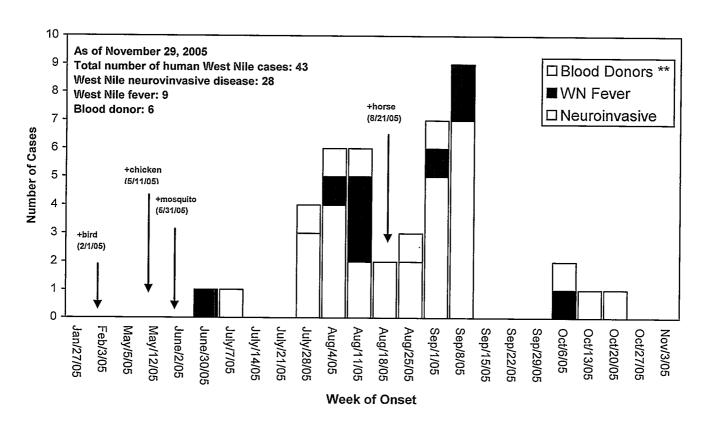
If you have any questions or need additional information, please let either of us know.

TLG:JEF:DD:sc Assignment: REF #3239 (A062LM2005)

Attachment

c: Chief Administrative OfficerCounty CounselExecutive Officer, Board of Supervisors

Human West Nile Virus Cases LAC, 2005







THOMAS L. GARTHWAITE, M.D. Director and Chief Medical Officer

FRED LEAF Chief Operating Officer

COUNTY OF LOS ANGELES DEPARTMENT OF HEALTH SERVICES 313 N. Figueroa, Los Angeles, CA 90012 (213) 240-8101

October 6, 2005

TO: Each Supervisor

FROM: Thomas L. Garthwaite, M.D. \\

Director and Chief Medical Officer

Jonathan E. Fielding, M.D., M.P.H,

Public Health Director and Health Officer

SUBJECT: 2005 WEST NILE VIRUS ACTION PLAN, MONTHLY FOLLOW-UP REPORT

On March 8, 2005, we presented the Board our West Nile Virus (WNV) prevention and surveillance plan for 2005. This is the seventh monthly follow-up report describing WNV prevention and surveillance activities in 2005.

Since our last update in September, 20 new cases of WNV infection were confirmed; a total of 32 human WNV cases have been identified as of October 3, 2005. These cases include: eight encephalitis, 12 meningitis, eight WNV Fever, and four asymptomatic blood donors. Eleven cases are located in the San Fernando Valley, 10 are from eastern County, four are from the South Bay, four are from the San Gabriel Valley, two are from South Los Angeles, and one is from West Los Angeles. Since the first confirmed WNV case on August 9, the Acute Communicable Disease Control Program has posted biweekly updates on Tuesdays and Fridays on the Department of Health Services' website showing the location of WNV-infected birds and the number of confirmed WNV human cases (http://lapublichealth.org/acd/index.htm). To date, there have been no reported human deaths due to WNV infection. Ten confirmed horse infections have been reported. One hundred thirty-three WNV-infected dead birds and 65 sentinel chickens have shown evidence of WNV infection, including those in Long Beach. Two hundred eleven WNV-infected mosquito pools have been detected, including those in Long Beach.

We will provide you with a final report for the 2005 season by November 16, 2005. In the meantime, if you have any questions or need additional information, please let either of us know.

TLG:JEF:RC:sc 502:011 REF 2813 (A007LM2005 #7)

Attachment

c: Chief Administrative Officer County Counsel Executive Officer, Board of Supervisors OF SUPERVISORS

Gloria Molina First District

Yvonne Brathwalte Burke Second District

> Zev Yaroslavsky Third District

Don Knabe Fourth District

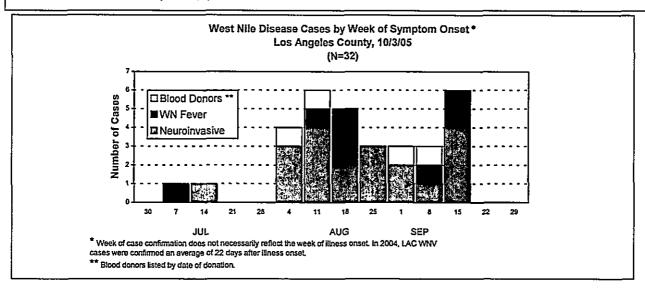
Michael D. Antonovich Fifth District



WEST NILE VIRUS: Epidemiology Report Cumulative Totals – October 3, 2005

	West Nile Virus Case Characteristics - Los Angeles County, 2005 ¹									
	i				Clinical Pr	esentation			Demog	
	Total #	Information Unknown ²	Blood Donor	WN Fever	Neuro- invasive	Neuroinvasive _ Diagnosis	Hospitalized ³	Deaths	Gender (M / F)	Median Age (range)
TOTAL to date ⁴	32	0	4	8	20	8 = Encephalitis 12 = Meningitis 0 = Acute Flaccid Paralysis	22	0	19 /13	50 yrs (4-89 yrs)

- 1. Excludes cases in Long Beach and Pasadena. Totals are provisional and subject to change.
- 2. Cases reported positive but clinical and demographic information is pending.
- 3. Hospitalized at time of diagnosis and may not reflect current clinical status.
- 4. Cumulative case total as of Monday 10/3/05, 4pm.



West Nile Virus: Case Count by Service Planning Area (SPA) Los Angeles County, 10/3/2005						
LOCATION	TOTAL to date ¹					
SPA 1: Antelope Valley	0					
SPA 2: San Fernando	11					
SPA 3: San Gabriel	4					
SPA 4: Metro	0					
SPA 5: West	1					
SPA 6: South	2					
SPA 7: East	10					
SPA 8: South Bay	4					
Residence Unknown ²	0					
TOTAL ³	32					

- Totals are provisional and subject to change.
 Demographic information is excluded or pending.
 Cumulative case total as of Monday 10/3/05, 4pm.

Dead Birds identified with West Nile Virus by ZIP Code Los Angeles County, 2005 (as of 10/3/2005)

